Montana Board of Oil and Gas Conservation **Environmental Assessment**

Operator: Bill Barrett Corporation
Well Name/Number: Simmes Ranch 41-2-36-3W-H
Location: Lot 1 (NE NE) Section 2 T36N R3W
County: Toole, MT; Field (or Wildcat) Wildcat
Air Quality
(possible concerns)
Long drilling time: No, 10-20 days drilling time.
Unusually deep drilling (high horsepower rig): Yes, single or double derrick drilling rig, 600-900 HP to
drill a vertical pilot hole to 4135' into the Duperow Formation. Well will be logged and plugged back to
2300' and kickoff and drill a single lateral horizontal Banff Sand Formation well test, 3128'TVD/7491' MD.
Possible H2S gas production: Yes possible from Mississippian and Duperow Formations.
In/near Class I air quality area: No, no class I air quality area in the area of review.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-
<u>211.</u>
Mitigation:
X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: If there is an existing pipeline for gas in the area and gas can be gathered or if no
gathering system nearby associated gas can be flared under Board Rule 36.22.1220. Air quality permit
required only if well is productive.
Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater, and freshwater mud system to be used only.
High water table: No high water table at this location.
Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral, about 1/2 of a mile to
the southeast from this location.
Water well contamination: None, closest water well is adjacent to this location and is an unused water
<u>well.</u>
Porous/permeable soils: No, silty sandy bentonitic soils.
Class I stream drainage: No, Class I stream drainages, nearby.
Mitigation:
X Lined reserve pit
\underline{X} Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: 500' of surface casing will be set, well below freshwater zones in nearby water wells.
Adequate surface casing and BOP equipment will be set and used. Pit liner will be used in the reserve pit.
Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: No stream crossings required.

High erosion potential: No, moderate cut, up to 10.1' and moderate fill of 13.9', required.

Loss of soil productivity: None, location to be restored after drilling well, if nonproductive. If productive
unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, large well site 550'X420'
Damage to improvements: Slight, surface use is cultivated land
Conflict with existing land use/values: Slight.
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
X Other Requires DEQ General Permit for Storm Water Discharge Associated with
Construction Activity, under ARM 17.30.1102(28).
Comments: Access will be from existing county gravel road, Loop Road. From existing Loop Road,
about 1.6 miles of new access will be built into this new location. Reserve pit will be lined with a
minimum 12 mill liner. Drilling fluids will be freshwater and freshwater mud system. Fluids will be
allowed to dry in the reserve pit. Cuttings and pit solids will buried in the lined pit. Pit will then be
backfilled with subsoil and final cover will be topsoil.
The 14h The words /Nietze
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: <u>Closest residences are about 1.5 miles to the southwest and about</u>
2 miles to the west southeast from this location. The landing strip is about 1.5 miles to the southeast of this
location. The town of Sunburst, Montana is about 2.125 miles to the southeast from this location.
Possibility of H2S: Possible H2S from Mississippian and Duperow Formations.
Size of rig/length of drilling time: Single or double derrick drilling rig 10 to 20 days drilling time.
Mitigation:
_X Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: Adequate surface casing cemented to surface with working BOP stack should
mitigate any problems. (BOP's 3,000 psig annular, pipe and blind rams) rule 36.22.1014.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: <u>No</u>
Threatened or endangered Species: Threatened or endangered species is the Black-footed Ferret.
Candidate species is the Sprague's Pipit. NH Tracker website list the following as species of concern:
Hoary Bat, Baird's Sparrow, Golden Eagle, Ferruginous Hawk, Chestnut Collared Longspur and Long-
L'11- 1 C1
billed Curlew.
Mitigation:
Mitigation: Avoidance (topographic tolerance/exception)
Mitigation:

Other:
Comments: Private surface cultivated lands. There maybe species of concern that maybe
impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like
done, if a species of concern are discovered at this location.
Historical/Cultural/Dalacutalasical
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private surface cultivated lands. There maybe possible
historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the operator to
consult with the surface owner as to his desires to preserve these sites or not, if they are found during
construction of the wellsite.
construction of the wensite.
C - 2 - 1/17 2
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No concerns at this time. Well is a wildcat.
Remarks or Special Concerns for this site
The well will be drilled first as a vertical pilot hole to 4135' into the Duperow Formation. Well will be
logged and plugged back to 2300' and kickoff and drill a single lateral horizontal Banff Sand Formation
well test, 3128'TVD/7491' MD.
wen test, 3128 1 v D/7491 MD.
Summary: Evaluation of Impacts and Cumulative effects
Summary: Evaluation of Impacts and Cumulative effects
Summary: Evaluation of Impacts and Cumulative effects
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur.
Summary: Evaluation of Impacts and Cumulative effects
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur.
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does</u>)
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement.
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki_(title:)Chief Field Inspector
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki (title:)Chief Field Inspector Date:July 19, 2012
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki_(title:)Chief Field Inspector
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki (title:)Chief Field Inspector Date:July 19, 2012
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki(title:)(significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki(title:)(significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement.
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki(title:)(significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki(title:)(significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement.
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur. I conclude that the approval of the subject Notice of Intent to Drill (does/does not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/does not) require the preparation of an environmental impact statement. Prepared by (BOGC):/s/Steven Sasaki

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA

COUNTIES, Toole County (subject discussed)

July 19, 2012

(date)

Montana Natural Heritage Program Website

(Name and Agency)
Heritage State Rank= S1, S2, S3 T37N R3W
(subject discussed)

(subject discussed)	
July 19, 2012	
(date)	
If location was inspected before permit approval:	
Inspection date:	
Inspector:	
Others present during inspection:	
Inspection date: Inspector:	